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individual inductors which possess an airgap of small width are stacked.

Claim 30 (previously presented): The inductor as claimed in claim 16, characterized in that said inductor has small values of form factor (ratio between a height along said revolution axis and an external diameter of said core) when adapted to specific constraints of low profile applications.

Claim 31 (previously presented): The inductor as claimed in claim 16, characterized in that said inductor has a low level of audible noise when supplied with AC currents at low frequencies in a range of DC to 1000Hz and substantially no magnetically induced vibrations in said magnetic material thereby minimizing audible noise.

Claim 32 (previously presented): A transformer as claimed in claim 1 wherein said soft isotropic magnetic material is a composite material comprised of iron and resin.

Claim 33 (previously presented): An inductor as claimed in claim 16 wherein said soft isotropic magnetic material is a composite material comprised of iron and resin.

Claim 34 (new): The transformer as claimed in claim 1 wherein said transformer is a polyphase transformer formed by stacking cores of each phase face to face or with separation airgaps.

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Claim 35 (new): The inductor as claimed in claim 16 wherein said inductor is a polyphase inductor formed by stacking cores of each phase face to face or with separation airgaps.